CHAMINADE UNIVERSITY OF HAWAII

COURSE SYLLABUS 140-00 PHYSICS 180 INTRODUCTION TO ASTRONOMY

Instructor: Dr. Jack F. McMillan Class Location: Pearl Harbor, Bldg 679 Class Hours: MW 4:45 - 6:50 PM , 7:05 - 9:10 PM (Lab) Office Hours: TBA Phone: 536-5496 e-mail: JMcmi24918@aol.com

Text: <u>Astronomy Today</u>, Second Edition Chaisson, Eric and McMillan, Steven; 1997, Prentice Hall Publishing Co. FE99 Prus

I. Course Goals:

This course is designed to provide the student with an understanding of modern astronomical principles and scientific methods. The course will examine the current body of knowledge in astronomy with an emphasis on recent data provided by satellite missions. Also, the course will introduce the student to the Internet via astronomy-related websites.

- II. Course Objectives:
 - 1. To develop an understanding of the historical and present role of astronomy in society.
 - 2. To develop an understanding and appreciation of basic science.
 - 3. To be able to define Astronomy and know what astronomers do.
 - 4. To be able to define and use astronomical terminology.
 - 5. Understand the importance of astronomy in everyday life.
 - 6. To learn to distinguish science from popular pseudoscience.

III. Course Requirements:

- 1. Homework. There will be weekly assignments due the week worth 10 points each.
- 2. Examinations. There will be four tests worth 100 points each.
- 3. Lab Reports. There will be 10 labs with reports due the following lab session. Each report is worth 10 points.
- Extra Credit: The instructor will suggest extra credit assignments. Typically, these help when one's grade is "borderline".
- IV. Grades:

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A = 90 - 100 %		450 - 500 points
B = 80 - 89 %		400 - 449 points
C = 70 - 79 %	• •	350 - 399 points
D = 60 - 69 %		300 - 340 points
F = Below 60 %		000 - 299 points
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Chapter V. Topics: 1 Charting The Heavens 2 The Copernican Revolution Radiation 3 Exam 1. The Solar System 6 7 The Earth The Terrestrial Planets 8,9,10 The Jovian Planets 11,12,13 Exam 2. The Sun 16 Measuring the Stars 17

Stellar Fomation, Stellar Evolution	
Stellar Explosions, Neutron Stars,Black Holes and Black Holes	21,22
Exam 3.	
The Milky Way Galaxy	
Normal Galaxies	
Cosmology	
The Early Universe	27

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Exam 4.

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